

CURRICULUM VITAE

W. DAVID SHUFORD

BORN: February 26, 1949

EDUCATION

M.S., Ecology, University of California, Davis, 1973

B.A., Biology (honors), Colby College, Waterville, Maine, 1971

PROFESSIONAL EXPERIENCE

1983 to present: Senior Scientist, Point Reyes Bird Observatory.

Research focuses on the status, habitat use, and conservation needs of waterbirds in California and the western United States. Major projects include research on the ecology and reproductive biology of California Gulls at Mono Lake, California; surveys of various species of inland-breeding seabirds, including the Black Tern, in California; documentation of the importance of wetlands throughout the West to shorebirds via the Pacific Flyway Project; reconnaissance surveys of the abundance, distribution, annual phenology, and broadscale habitat associations of waterbirds at the Salton Sea, California, and the Klamath Basin, California/Oregon; coordination of the update of California Department of Fish and Game's list of Bird Species of Special Concern; preparation for U.S. Fish and Wildlife Service of status assessments of the Black Tern and Caspian Tern in North America; and co-editing a monograph of collected papers on the Ecology and Conservation of Birds of the Salton Sink. Also extensive interest in the status, distribution, and habitat associations of all species of birds in California; extensive knowledge of the state's breeding avifauna via breeding bird atlas projects in Marin County and the Glass Mountain region of Mono County. Over 25 years of field experience in California with an emphasis on surveys of breeding and non-breeding waterbirds; field experience also from work throughout much of the West and from Alaska to Antarctica.

1982 to 1983: Field Biologist, Point Reyes Bird Observatory.

Coordinated and completed field work and analyzed data for the Marin County Breeding Bird Atlas, the first project of its kind in the western United States.

1979 to 1981: Field Biologist, Point Reyes Bird Observatory.

Part of a team of five PRBO biologists that conducted extensive waterbird censuses and beached carcass surveys to assess the size and mortality rates of the estuarine and inshore bird communities of Point Reyes.

1977 to 1979 (summers): Field Biologist, Museum of Vertebrate Zoology, University of California, Berkeley.

Conducted censuses (and behavioral observations) to determine habitat preferences of tundra-nesting birds on the North Slope of Alaska.

1977 to 1979: Field Biologist at Bodega Marine Lab for the Museum of Vertebrate Zoology, University of California, Berkeley.

Conducted extensive censuses, observations of banded birds, and invertebrate sampling to study aspects of the winter ecology of the Sanderling (*Calidris alba*).

1979 to 1980: Co-regional editor of the Middle Pacific Coast Region of *American Birds*.

Four times a year wrote seasonal reports for all landbirds. The notebooks compiled by all the past and current editors provide the single most important source of unpublished data on the status, distribution, and abundance of northern California birds.

RESEARCH AND AVOCATIONAL INTERESTS

Main research interests are documenting the status, distribution, abundance, and population trends of California birds, particularly species facing human-induced threats (e.g., Snowy Plover, California Gull, and other wetland-dependent species). Because of a broad knowledge of the California avifauna, have been asked to review (prior to publication) three regional books on California's avifauna: *Discovering Sierra Birds* (1985, Beedy and Granholm, Yosemite and Sequoia natural history associations), *Monterey Birds* (1985, Roberson, Monterey Peninsula Audubon Society), and *Birds of Yosemite and the East Slope* (1988, revised 1992, Gaines, Artemisia Press). This knowledge has been gained by over 25 years field experience with birds in California, an extensive knowledge of the literature on California's avifauna, and a large network of contacts with ornithologists and field observers in federal and state agencies, private organizations, conservation groups, local Audubon Society chapters, and the general birding community.

CONSULTING AND CONTRACT WORK

Periodic consulting work includes censusing riparian landbirds for an EIR on the impacts of gravel mining along the Russian River, Sonoma County (spring 1979); sampling beach sediments for the Bodega Marine Lab after a major oil spill (fall 1984), censusing Salt Marsh Common Yellowthroats on Point Reyes for the San Francisco Bay Bird Observatory (spring 1985); providing data for and reviewing the wildlife setting section of an EIR on the impacts of water diversions on the Mono Basin ecosystem (1991 to 1992); and consulting on environmental issues relevant to restoration of the Salton Sea (1999-2000, present).

VOLUNTEER WORK

Point Reyes Bird Observatory: part-time volunteer work for this organization over many years gave me extensive experience in census work on breeding and wintering landbirds and netting and banding landbirds and shorebirds.

TEACHING EXPERIENCE

Have taught field courses and lectured on the ecology, natural history, and status, distribution, and abundance of California birds for College of Marin, adult education (field assistant, Birds of California); Marin County Schools, adult education (co-taught, natural history of coastal Marin) Mono Lake Foundation (breeding birds and fall migration in eastern Sierra); Point Reyes Bird Observatory's Natural Excursions Program (migrating hawks, winter birds of the Great Basin, breeding birds of Sequoia and Kings Canyon national park, birds of Mono Lake region); Point Reyes Field Seminars (birds of Point Reyes); and San Francisco State University (Birds of the Sierra Nevada, SFSU Field Campus at Yuba Pass). Have also lectured extensively for many Audubon Society chapters and various groups such as Hayward Regional Parks and the U.S. Forest Service, Mono Basin National Forest Scenic Area.

PROFESSIONAL AFFILIATIONS

Member of American Birding Association, California Native Plant Society, Cooper Ornithological Society, Society of Conservation Biology, and Western Field Ornithologists (Board of Directors).

PUBLICATIONS

- Allen, S. G., Ainley, D. G., Francher, L., and D. Shuford. 1986. Movements and activity patterns of harbor seals (*Phoca vitulina*) from the Drakes Estero population, California, 1985-86. Final Report to Sanctuaries Program Office, NOAA.
- Dierks, A. J., and Shuford, W. D. 1992. Population size and reproductive success of California Gulls at Mono Lake, California, in 1991, with emphasis on the Negit Islets. Contribution No. 544 of Point Reyes Bird Observatory. 13 pp.
- Kaufmann, R., and Shuford, W. D. 1997. Population size and reproductive success of California Gulls at Mono Lake, California, in 1997, with emphasis on the Negit Islets. Contribution No. 726 of Point Reyes Bird Observatory.
- Kjelmyr, J. E., Page, G. W., Shuford, W. D., and Stenzel, L. E. 1991. Shorebird numbers in wetlands of the Pacific Flyway: A summary of spring, fall, and winter counts in 1988, 1989, and 1990. A report of Point Reyes Bird Observatory. 18 pp.

- Laymon, S.A., and Shuford, W. D. 1979. The nesting season. Middle Pacific Coast region. *Am. Birds* 33:893-896.
- _____. 1980. The autumn migration. Middle Pacific Coast region. *Am. Birds* 34:195-199.
- _____. 1980. The winter season. Middle Pacific Coast region. *Am. Birds* 34:302-305.
- _____. 1980. The spring migration. Middle Pacific Coast region. *Am. Birds* 34:810-814.
- _____. 1980. The nesting season. Middle Pacific Coast region. *Am. Birds* 34:925-929.
- McCormick, M., Shuford, W. D., and Steele, J. 1989. Preliminary Checklist of the Birds of the Sierra Valley and Yuba Pass area. School of Science, San Francisco State University, San Francisco. 10 pp.
- Molina, K. C. , and Shuford ,W. D. 2004. Introduction, in Ecology and conservation of birds of the Salton Sink: An endangered ecosystem (W. D. Shuford and K. C. Molina, eds.). *Studies Avian Biology* 27:1-11.
- Myers, J. P., Shuford ,W. D., and Pitelka, F. A. 1978. Breeding Bird Census: Wet Coastal Plain Tundra II. *Am Birds* 32:117-118.
- _____. 1979. Breeding Bird Census: Wet Coastal Plain Tundra II. *Am. Birds* 33:102.
- Myers, J. P., Shuford, W. D., Johnston, S., and Pitelka, F. A. 1979. Breeding Bird Census: Arctic Low Foothills Tundra. *Am Birds* 33:101.
- Page, G. W., and Shuford, W. D. 2000. Pacific coast regional shorebird plan. Version 1.0. Regional report of the U.S. Shorebird Conservation Plan. Manomet Center for Conservation Sciences, P.O. Box 1770, Manomet, MA 02345 (<http://www.manomet.org/USSCP/files.htm>).
- Page, G. W., Shuford, W. D., Evens, J. G., and Stenzel, L. E. 1983. The distribution and abundance of aquatic birds in wetlands of the Point Reyes to Bodega area. A report prepared for the Point Reyes-Farallon Islands National Marine Sanctuary. Text 119 pp., plus 152 pp. of tables and figures.
- Page, G. W., Shuford, W. D., and Kjelson, J. E. 1994. Results of the April, August, and November 1993 shorebird counts in the wetlands of California's Central Valley. A report of Point Reyes Bird Observatory.

- Page, G. W., Shuford, W. D., Kjelson, J. E., and Stenzel, L. E. 1992. Shorebird numbers in wetlands of the Pacific Flyway: A summary of counts from April 1988 to January 1992. A report of Point Reyes Bird Observatory. 20 pp. plus appendixes.
- Page, G. W., Stenzel, L. E., Kjelson, J. E., and Shuford, W. D. 1990. Shorebird numbers in wetlands of the Pacific Flyway: A summary of spring and fall counts in 1988 and 1989. A report of Point Reyes Bird Observatory. 11 pp.
- Page, G. W., Stenzel, L. E., Shuford, W. D., and Bruce, C. R. 1991. Distribution and abundance of the Snowy Plover on its western North American breeding grounds. J. Field Ornithol. 62:245-255.
- Sealy, S. G., Carter, H. R., Shuford, W. D., Powers, K. D., and Chase, C. A., III. 1991. Long-distance vagrancy of the Asiatic Marbled Murrelet in North America, 1979-1989. W. Birds 22:145-155.
- Seto, N. W. H., Dillon, J., Shuford, W. D., and Zimmerman, T. 2003. A review of Caspian Tern (*Sterna caspia*) nesting habitat: A feasibility assessment of management opportunities in the U.S. Fish and Wildlife Service Pacific Region. U. S. Dept. of the Interior, Fish and Wildlife Service, Portland, OR.
- Shuford, W. D. 1973. Breeding Bird Census: Disturbed Riparian Stream Border. Am. Birds 27:1005.
- _____. 1975. Breeding Bird Census: Coastal Scrub. Am. Birds 29:1129.
- _____. 1978. Field Checklist of the Birds of Marin County, California and Adjacent Offshore Waters. Chevron USA Inc, for Point Reyes Bird Observatory. Revised 1982.
- _____. 1981. A note on assessing the status of vagrant warblers on the California coast. Am. Birds 35:264-266.
- _____. 1985a. Acorn Woodpecker mutilates nestling Red-breasted Sapsuckers. Wilson Bull. 97:234-236.
- _____. 1985b. Reproductive success and ecology of California Gulls at Mono Lake, California in 1985, with special reference to the Negit Islets: An overview of three years of research. Contribution No. 318 of Point Reyes Bird Observatory. 50 pp.
- _____. 1986a. Population size and reproductive success of California Gulls at Mono Lake, California in 1986, with special reference to the Negit Islets. Contribution No. 347 of Point Reyes Bird Observatory. 22 pp.

- _____. 1986b. Have ornithologists or Red-breasted Sapsuckers extended their range in coastal California? *W. Birds* 17:97-105.
- _____. 1992. Population size and reproductive success of California Gulls at Mono Lake, California, in 1992, with emphasis on the Negit Islets. Contribution No. 568 of Point Reyes Bird Observatory.
- _____. 1993. *The Marin County Breeding Bird Atlas: A Distributional and Natural History of Coastal California Birds*. Bushtit Books, Bolinas, Calif. 480 pp.
- _____. 1998. Surveys of Black Terns and other inland-breeding seabirds in northeastern California in 1997. Report 98-03, Bird and Mammal Conservation Program, Calif. Dept. Fish and Game, Sacramento.
- _____. 1999. Status assessment and conservation plan for the Black Tern (*Chlidonias niger*) in North America. U.S. Dept. Interior, Fish and Wildlife Service, Denver, CO.
- _____. 2002. Surveys of wetland birds at Agency Lake Ranch, Oregon, September 2000 to May 2002: Baseline data and recommendations for wetland enhancement for birds. Final report to U.S. Bureau of Reclamation, 6600 Washburn Way, Klamath Falls, OR 97603. Contribution No. 1012 of PRBO Conservation Science.
- _____. 2004. Book review. *Birds of the Salton Sea: Status, Biogeography, and Ecology*. *Condor* 106:444-445.
- _____. 2005. Familiar faces and female foresight: Brief reflections on the history of field ornithology in California. *Birding* 37:38-42.
- _____. 2005. Historic and current status of breeding American White Pelicans in California. *Waterbirds* 28 (Special Publication 1): 35-47.
- Shuford, W. D., and Alexander, C. 1994. Nesting population survey of California and Ring-billed gulls in northern California in 1994, with notes on historical status. Contribution No. 656 of Point Reyes Bird Observatory.
- Shuford, W. D., Calleri, D. M., and Wilson, T. 1996. Population size and reproductive success of California Gulls at Mono Lake, California, in 1996, with emphasis on the Negit Islets. Contribution No. 721 of Point Reyes Bird Observatory.
- Shuford, W. D., and Craig, D. P. 2002. Status assessment and conservation recommendations for the Caspian Tern (*Sterna caspia*) in North America. U.S. Dept. of the Interior, Fish and Wildlife Service, Portland, OR.

- Shuford, W. D., and DeMartini, A. 1995. Population size and reproductive success of California Gulls at Mono Lake, California, in 1995, with emphasis on the Negit Islets. Contribution No. 703 of Point Reyes Bird Observatory.
- Shuford, W. D., and DeSante, D. 1979. The Changing Seasons. *Am. Birds* 33:255-262.
- Shuford, W. D., Dierks, A. J., Calleri, D. M., and King, C. A. 1993. Population size and reproductive success of California Gulls at Mono Lake, California, in 1993, with emphasis on the Negit Islets. Contribution No. 604 of Point Reyes Bird Observatory.
- Shuford, W. D., and Fitton, S. 1997. The status of owls in the Glass Mountain region, Mono County, California. Report of Point Reyes Bird Observatory to the U.S. Forest Service, Inyo National Forest.
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- Shuford, W. D., Hickey, C. M., Safran, R. J., and Page, G. W. 1996. A review of the status of the White-faced Ibis in winter in California. *W. Birds* 27:169-196.
- Shuford, W. D., J. M. Humphrey, R. B. Hansen, C. M. Hickey, G. W. Page, and L. E. Stenzel. 2004. Patterns of distribution, abundance, and habitat use of breeding Black-necked Stilts and American Avocets in California's Central Valley in 2003. Draft Final Report for the Central Valley Shorebird Working Group. Contribution No. 1015 of PRBO Conservation Science, 4990 Shoreline Highway 1, Stinson Beach, CA 94970.
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- Shuford, W. D., Humphrey, J. M., and Nur, N. 2001. Breeding status of the Black Tern in California. *W. Birds* 32:189-217.
- Shuford, W. D., Laymon, S. A., and Fitton, S. 1995. Fifty years after Grinnell and Miller: Organizing for a better future. *W. Birds* 26:205-212.
- Shuford, W. D., and Metropulos, P. J. 1996. The Glass Mountain Breeding Bird Atlas Project: Preliminary results, 1991 to 1995. Report of Point Reyes Bird Observatory to the U.S. Forest Service, Inyo National Forest.

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- Shuford, W. D., and Molina, K. C. 2004. Concluding Remarks. The Salton Sea: A conservation conundrum or paradigm for success? *Studies Avian Biology* 27:152-155.
- Shuford, W. D., and Page, G. W. 1985. California Gull decoy placement on Negit Island, Mono Lake, California. Contribution No. 317 of Point Reyes Bird Observatory. 14 pp.
- Shuford, W.D., Page, G. W., Evens, J. G., and Stenzel, L. E. 1989. Seasonal abundance of waterbirds at Point Reyes: A coastal California perspective. *W. Birds* 20:137-265.
- Shuford, W. D., Page, G. W., and Hickey, C. M. 1995. Distribution and abundance of Snowy Plovers wintering in the interior of California and adjacent states. *W. Birds* 26:82-98.
- Shuford, W. D., Page, G. W., and Kjelson, J. E. 1993. Distribution, abundance, and habitat use of shorebirds in California's Central Valley in winter 1992-93. Contribution No. 592 of Point Reyes Bird Observatory.
- Shuford, W. D., Page, G. W., and Kjelson, J. E. 1998. Patterns and dynamics of shorebird use of California's Central Valley. *Condor* 100:227-244.
- Shuford, W. D., Page, G. W., Kjelson, J. E., and Hickey, C. M. 1994. Seasonal abundance and habitat use of shorebirds in California's Central Valley, November 1993 to August 1994. A report of Point Reyes Bird Observatory.
- Shuford, W. D., Page, G. W., and Stenzel, L. E. 2002. Patterns of distribution and abundance of migratory shorebirds in the Intermountain West of the United States. *Western Birds* 33:134-174.
- Shuford, W. D., Roy, V. L., Page, G. W., and Paul, D. S. 1994. A comprehensive survey of shorebirds in wetlands at Great Salt Lake, Utah, 10-11 August 1994. Contribution No. 655 of Point Reyes Bird Observatory.
- Shuford, W. D., Roy, V. L., Page, G. W., and Paul, D. S. 1995. Shorebird surveys in wetlands at Great Salt Lake, Utah, April and August 1995. Contribution No. 708 of Point Reyes Bird Observatory.
- Shuford, W. D., and Ryan, T. P. 2000. Nesting populations of California and Ring-billed gulls in California: Recent surveys and historical status. *W. Birds* 31:133-164.

- Shuford, W. D., and Spear, L. B. 1988a. Surveys of breeding penguins and other seabirds in the South Shetland Islands, Antarctica, January-February 1987. NOAA Technical Memorandum NMFS-F/NEC-59. 27 pp.
- _____. 1988b. Surveys of breeding Chinstrap Penguins in the South Shetland Islands, Antarctica. British Antarctic Surv. Bull. 81:19-30.
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- Shuford, W. D., Super, P., and Johnston, S. 1985. Population size and breeding success of California Gulls at Mono Lake, California, in 1984. Contribution No. 294 of Point Reyes Bird Observatory. 48 pp.
- Shuford, W. D., D. L. Thomson, D. W. Mauser, and J. Beckstrand. 2004. Abundance, distribution, and phenology of nongame waterbirds in the Klamath Basin of Oregon and California in 2003. Final Report to U.S. Fish and Wildlife Service, Klamath Basin National Wildlife Refuge Complex, 4009 Hill Road, Tulelake, CA 96134. Contribution No. 1019 of PRBO Conservation Science, 4990 Shoreline Highway 1, Stinson Beach, CA 94970.
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- Shuford, W. D., Warnock, N., and McKernan, R. L. 2004. Patterns of shorebird use of the Salton Sea and adjacent Imperial Valley, California. Studies Avian Biology 27:61-77.
- Shuford, W. D., Warnock, N., and Molina, K. C. 1999. The avifauna of the Salton Sea: A synthesis. Report of Point Reyes Bird Observatory for the Salton Sea Authority via U.S. Environmental Protection Agency grant #R826552-01-0.
- Shuford, W. D., Warnock, N., Molina, K. C., and Black, A. E. 2000. Avifauna of the Salton Sea: Abundance, distribution, and annual phenology. Contribution No. 931 of Point Reyes Bird Observatory. Final Report for EPA Contract No. R826552-01-0 to the Salton Sea Authority, 78401 Highway 111, La Quinta, CA 92253.
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- Stenzel, L. E., Kjelson, J. E., Page, G. W., and Shuford, W. D. 1989. Results of the first comprehensive shorebird census of northern and central California coastal wetlands, 8-12 September 1988. A report of Point Reyes Bird Observatory. 28 pp.

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- Suryan, R. M., D. P. Craig, D. D. Roby, N. D. Chelgren, K. Collis, W. D. Shuford, and D. E. Lyons. 2004. Redistribution and growth of the Caspian Tern population in the Pacific coast region of North America, 1981–2000. *Condor* 106:777–790.
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